

Josh Hurwitz

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Education

- M.S. in Applied Mathematics** May 2014 (Expected)
University of Florida
- B.S. in Mathematics, minor in Chemistry** May 2012
University of Florida

Presentations and Publications

- Using Discrete Event Simulation to Model a Crowded ED**
Annals of Emergency Medicine 2013 (Expected)
- National Beckman Symposium – Poster** Jan 2012
University of California, Irvine
- UF Beckman Seminars – Talks** Jan 2009 – May 2012
University of Florida

Awards and Support

- University of Florida Teaching Assistantship** Aug 2012 – Present
Courses taught outlined below.
- Creative Arts and Sciences Exhibition (CASE) Award** Jan 2011
Second place in a university-wide poster exhibition.
- Beckman Fellowship** January 2009 – May 2012
National grant to pursue individual research under a faculty mentor.

Research Experience

- Using Discrete Event Simulation to Model an Emergency Department**
Dr. Jed Keesling, UF Department of Mathematics May 2012 – Present
Worked closely with ED managers and providers to develop a comprehensive simulation platform for patient throughput.
- Preparation of Chitosan Nanotubes for Targeted Drug Delivery**
Dr. Jon Stewart, UF Center for Research at the Bio/Nano Interface
Jan 2009 – May 2012
Used template synthesis, solvent casting, plasma etching, reverse-microemulsions, and electron microscopy to engineer drug delivery vehicles.
- The Protective Effects of Gelsolin on Stroke Outcome in Rats**
Dr. Jeffrey Hughes, UF Department of Pharmaceutics Sep 2008 – Jan 2009
Performed stereotactic neurosurgeries, animal behavior tests, and 2,3,5-triphenyltetrazolium chloride (TTC) assays to investigate the effects of plasma gelsolin following middle cerebral artery occlusion (MCAO).

Teaching Experience

- Calculus 1** Aug 2013 – Present
Led discussion sections for a course designed for STEM students.
- Math for Liberal Arts Majors** Jan 2013 – May 2013
Led discussion sections for a course designed for students with weak math backgrounds.
- Precalculus Algebra and Trigonometry** Aug 2012 – Dec 2012
Led discussion sections and wrote quizzes for a large lecture course.

Computer Experience

- Programming**
R, Excel, Mathematica, MATLAB
- Typesetting**
TeX/LaTeX
- Environments**
Mac OS X, Microsoft Windows
- Educational Platforms**
Sakai, WebAssign, MyMathLab

Additional Skills and Experiences

- Graduate Student Mentor** Aug 2013 – Present
Assisted incoming graduate students with their transitions to graduate school.
- President of UF Men's Ultimate** May 2010 – Aug 2012
Organized travel, arranged practice schedules, managed budgets, planned community service, and supervised fundraising for a 70-member ultimate frisbee club.
College National Champions in 2010.
- Languages**
Spanish – basic conversation/comprehension
- Music**
Alto saxophone – ten years experience in jazz and wind ensemble.
Piano – four years experience, intermediate level.
- Selected Personal Travel**
Belize, Caribbean, Canada, England, France, Honduras, Mexico